

Supplementary figures for
Influence of subduction history on South American
topography
Flament et al.
Earth and Planetary Science Letters

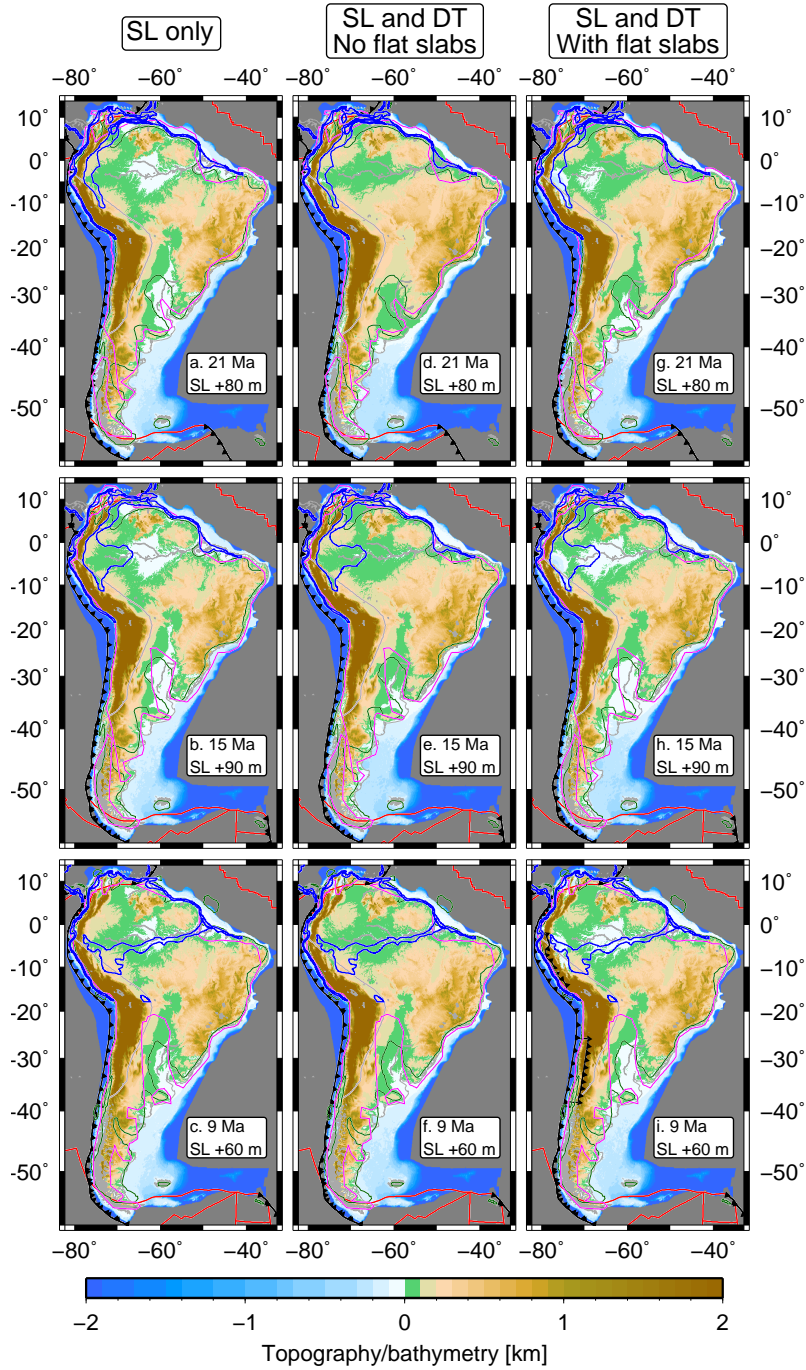


Figure 1: Effect of long-term fluctuations in sea level (“SL only”; Haq et al., 1987) on present-day topography at a/ 21 Ma, b/ 15 Ma and c/ 9 Ma, and model paleogeography considering fluctuations in sea level and dynamic topography (“SL and DT”, see text for more details) at d,g/ 21 Ma, e,h/ 15 Ma and f,i/ 9 Ma. Results on panels d-f are for case 2 and on panels g-i are for case 1. Inferred paleoshorelines are shown in blue (Wesselingh et al., 2010), magenta (Smith et al., 2004), and dark green (Golonka, 2009). Other lines are as in Figure 2 of the main text. See main text for references.

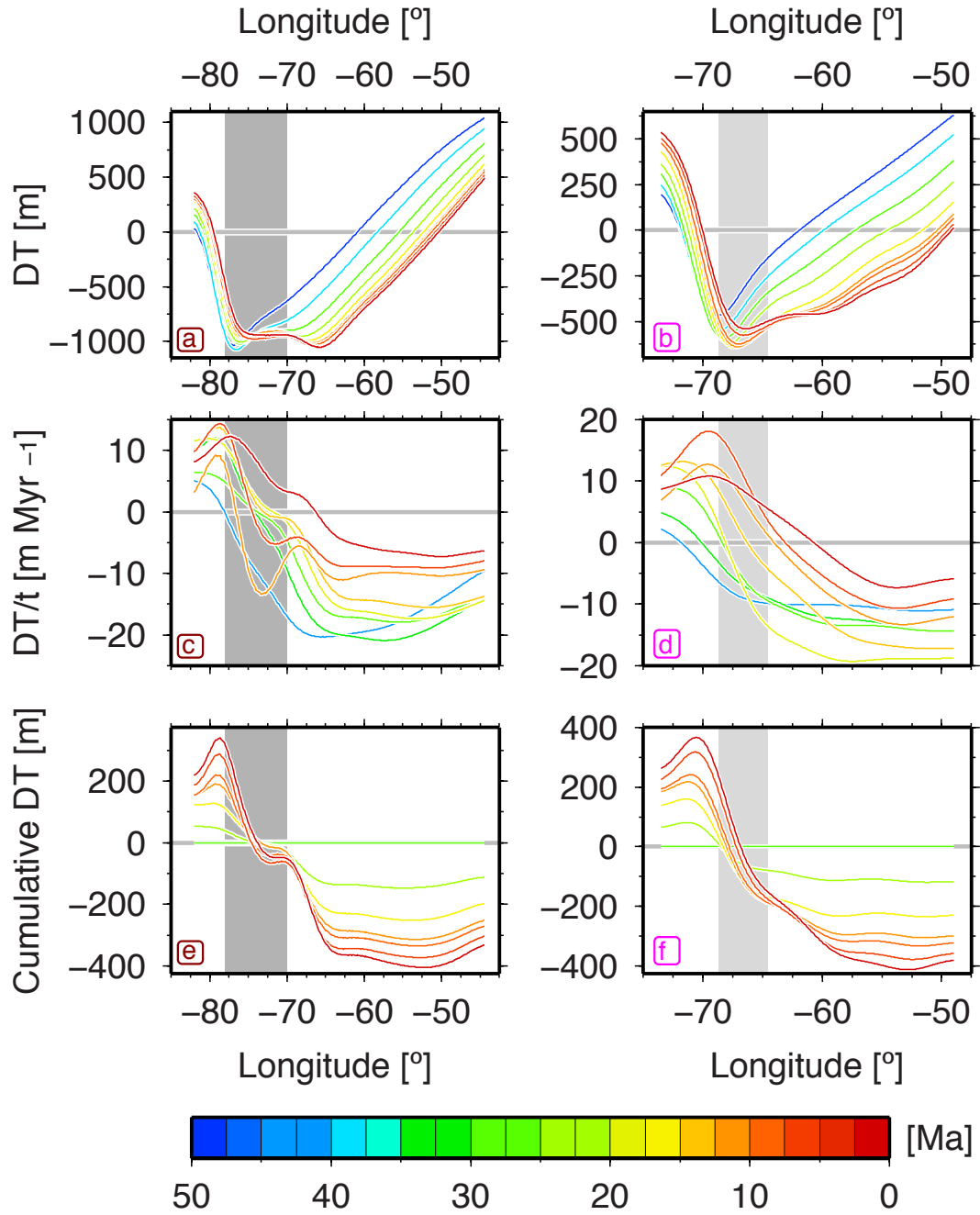


Figure 2: Evolution of a-b/ dynamic topography, c-d/ rate of change of dynamic topography, and e-f/ cumulative dynamic topography since 30 Ma colour-coded by age, sampled a,c,e/ along the Amazon River (dark grey shading denotes the approximate extent of the Pebas flooding; Shephard et al., 2010; Wesselingh et al., 2010), and b,d,f/ at 32°S (light grey shading denotes the approximate extent of positive residual topography; Dávila and Lithgow-Bertelloni, 2013). Results are for case 2 and for sediment-loaded dynamic topography. See main text for references.